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(21) International Application Number: PCT/US97/17618 (22) International Filing Date: 1 October 1997 (01.10.97) (30) Priority Data: <table border="0"><tr><td>08/724,643</td><td>1 October 1996 (01.10.96)</td><td>US</td></tr><tr><td>08/844,419</td><td>18 April 1997 (18.04.97)</td><td>US</td></tr><tr><td>08/846,017</td><td>25 April 1997 (25.04.97)</td><td>US</td></tr><tr><td>08/851,843</td><td>6 May 1997 (06.05.97)</td><td>US</td></tr><tr><td>08/854,050</td><td>9 May 1997 (09.05.97)</td><td>US</td></tr><tr><td>08/915,503</td><td>14 August 1997 (14.08.97)</td><td>US</td></tr><tr><td>08/911,312</td><td>14 August 1997 (14.08.97)</td><td>US</td></tr><tr><td>08/912,951</td><td>14 August 1997 (14.08.97)</td><td>US</td></tr></table> (71) Applicants (for all designated States except US): GERON CORPORATION [US/US]; 230 Constitution Drive, Menlo Park, CA 94025 (US). UNIVERSITY TECHNOLOGY CORPORATION [US/US]; Suite 250, 3101 Iris Avenue, Boulder, CO 80301 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CECH, Thomas, R. [US/US]; 1545 Rockmont Circle, Boulder, CO 80303 (US). LINGNER, Joachim [CH/US]; 360-30th Street, Boulder, CO 80303 (US). NAKAMURA, Toru [JP/US]; 4940 Thun-		08/724,643	1 October 1996 (01.10.96)	US	08/844,419	18 April 1997 (18.04.97)	US	08/846,017	25 April 1997 (25.04.97)	US	08/851,843	6 May 1997 (06.05.97)	US	08/854,050	9 May 1997 (09.05.97)	US	08/915,503	14 August 1997 (14.08.97)	US	08/911,312	14 August 1997 (14.08.97)	US	08/912,951	14 August 1997 (14.08.97)	US	(74) Agents: SMITH, William, M. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
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(54) Title: TELOMERASE REVERSE TRANSCRIPTASE																											
(57) Abstract <p>The present invention is directed to novel telomerase nucleic acids and amino acids. In particular, the present invention is directed to nucleic acid and amino acid sequences encoding various telomerase protein subunits and motifs, including the 123 kDa and 43 kDa telomerase protein subunits of <i>Euplotes aediculatus</i>, and related sequences from <i>Schizosaccharomyces</i>, <i>Saccharomyces</i> sequences, and <u>human telomerase</u>. The present invention is also directed to polypeptides comprising these telomerase protein subunits, as well as functional polypeptides and ribonucleoproteins that contain these subunits.</p>																											